| •   | PATENT COOPERA  | TION TREATY                      | DECENTER                           |  |  |  |  |
|---|---|----------------------------------|------------------------------------|--|--|--|--|
|   |   | 1 M                              | RECEIVED                           |  |  |  |  |
|   | /   | Made                             | 2 5 JAN 2005                       |  |  |  |  |
| From the INTERNATIONAL SEA  | ARCHING AUTHORITY   | 1 noch                           | PECTIT BENCKISCS                   |  |  |  |  |
| То:   | TO JAH  | NOTIFICATION                     | GROWN DEPT                         |  |  |  |  |
| RECKITT BENCKISER PLC<br>Attn. John Crawford M  | Knight KH 25/1  | THE WRITTEN OPIN                 | ION OF THE INTERNATIONAL           |  |  |  |  |
| Group Patents Dept.   | CASE NUMBER   | SEARCHING AUTHO                  | RITY, OR THE DECLARATION           |  |  |  |  |
| Dansom Lane<br>Hull, Yorkshire HU8 7  | 1511293P5 WQ  |                                  | Amends - 21/3/05                   |  |  |  |  |
| UNITED KINGDOM  | Date of the second  | Deman                            | d/woresp - 23/5/05                 |  |  |  |  |
|   | PECONO A  |                                  | (PCT Rule 44.1)                    |  |  |  |  |
|   | 1/1/2011 2011   | Date of mailing (a.y/month/year) | /01 /000E                          |  |  |  |  |
|   | IM/OICE   | 21                               | /01/2005                           |  |  |  |  |
| Applicant's or agent's file reference 11293P5 WO/JCM  | ACKNOW  | FOR FURTHER ACTION               | See paragraphs 1 and 4 below       |  |  |  |  |
| International application No.   | RÉNEWALS  | In ernational filing date        |                                    |  |  |  |  |
| PCT/GB2004/003186   |   | (day/month/year) 22              | /07/2004                           |  |  |  |  |
| Applicant   |   |                                  |                                    |  |  |  |  |
| RECKITT BENCKISER (AU   | STRALIA) PTY LIMITED  | 1                                |                                    |  |  |  |  |
|   |   |                                  |                                    |  |  |  |  |
| 1. X The applicant is hereby not  | tified that the international search i<br>ished and are transmitted herewitl  | report and the written opinion   | of the International Searching     |  |  |  |  |
| Filing of amondments an   | d statement under Article 19:   | *                                | an (ann Ruin 46):                  |  |  |  |  |
| ners of The same limits   | he so wishes, to amend the claims<br>or filing such amendments is norm  | ally 2 months from the date o    | f transmittal of the               |  |  |  |  |
| International S   | earch Report; however, for more contemporational Bureau of WIPO, 34   | letails, see the notes on the a  | ccompanying sneet.                 |  |  |  |  |
|   | 1211 Geneva 20, Switzerland, Fas  | scimile No.: (41-22) 740.14.35   |                                    |  |  |  |  |
|   | ctions, see the notes on the accordified that no international search   | report will be established and   | that the declaration under         |  |  |  |  |
| Article 17(2)(a) to that effect   | ct and the written opinion of the int   | emational Searching Authorit     | y are transmitted here with.       |  |  |  |  |
| _   | against payment of (an) addition  |                                  |                                    |  |  |  |  |
| annlicant's request to  | with the decision thereon has been<br>o forward the texts of both the prote   | est and the decision thereon t   | o the designated Offices.          |  |  |  |  |
| no decision has been  | the protest together with the decision the both that the decision thereon to the designated Offices.  applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. |                                  |                                    |  |  |  |  |
| 4. Reminders  | months from the priority date, the  | international application will   | he published by the                |  |  |  |  |
|   | cant wishes to avoid or postpone pm, must reach the International Bu  |                                  |                                    |  |  |  |  |
| before the completion of the tech   | nnical preparations for internation   | ai publication.                  |                                    |  |  |  |  |
|   | nents on an informal basis on the v<br>ational Bureau will send a copy of   |                                  |                                    |  |  |  |  |
| international preliminary examine the public but not before the exp   | ation report has been or is to be ei<br>iration of 30 months from the prior   | ity date.                        | would also be made available to    |  |  |  |  |
| Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary |   |                                  |                                    |  |  |  |  |
| data (in some Offices even later  | <ol> <li>otherwise, the applicant must, w</li> </ol>  | itnin 20 montas irom me pri      | ority date, perform the prescribed |  |  |  |  |
| In respect of other designated O  | acts for entry into the national phase before those designated Offices.  In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.   |                                  |                                    |  |  |  |  |
| See the Annex to Form PCT/IB/3 Guide, Volume II, National Chap  | 301 and, for details about the apploters and the WIPO Internet site.  | icable time limits, Office by O  | ffice, see the PCT Applicant's     |  |  |  |  |
|   |   |                                  |                                    |  |  |  |  |
| Name and mailing address of the In  |   | Authorized officer               |                                    |  |  |  |  |
| NL-2280 HV Rijswijk   | e, P.B. 5818 Patentlaan 2   | Véronique Bai                    | llou                               |  |  |  |  |
| Tel. (+31-70) 340-2040<br>Fax: (+31-70) 340-3016  | ), Tx. 31 651 epo nl,<br>6  |                                  |                                    |  |  |  |  |

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

# INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

# What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

# What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

# PATENT COOPERATION TREATY

# PCT

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference  | FOR FURTHER   | see Form PCT/ISA/220                                   |  |  |  |  |
|--|---|--|--|--|--|--|
| 11293P5 WO/JCM   | ACTION as w   | ell as, where applicable, item 5 below.                |  |  |  |  |
| International application No.  |   |  |  |  |  |  |
| PCT/GB2004/003186 22/07/2004 23/07/2003  |   |  |  |  |  |  |
| Applicant  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| RECKITT BENCKISER (AUSTRAL   | LIA) PTY LIMITED  |  |  |  |  |  |
| This International Search Report has been according to Article 18. A copy is being tra | n prepared by this International Searching A  | uthority and is transmitted to the applicant           |  |  |  |  |
| This International Search Report consists  | of a total of 6 sheets.   |  |  |  |  |  |
|  | a copy of each prior art document cited in the  | iis report.  |  |  |  |  |
| 1. Basis of the report   |   |  |  |  |  |  |
| a. With regard to the language, the i  | nternational search was carried out on the tess otherwise indicated under this item.            | pasis of the international application in the          |  |  |  |  |
| The international this Authority (Rul  | search was carried out on the basis of a trane e 23.1(b)).                                      | nslation of the international application furnished to |  |  |  |  |
| 1  | * **  | ed in the international application, see Box No. I.    |  |  |  |  |
| 2. Certain claims were fou   | nd unsearchable (See Box II).   |  |  |  |  |  |
| 3. X Unity of invention is lack  | king (see Box III).   |  |  |  |  |  |
| 4. With regard to the title,   |   | •  |  |  |  |  |
| x the text is approved as su   | bmitted by the applicant.   | •  |  |  |  |  |
| the text has been establis   | hed by this Authority to read as follows:   |  |  |  |  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| <b>†</b>   |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| 5. With regard to the abstract,  |   | ·  |  |  |  |  |
| X the text is approved as su   |   | ority as it appears in Box No. IV. The applicant       |  |  |  |  |
| the text has been establis may, within one month from                                  | med, according to Hule 36.2(b), by this Automation the date of mailing of this international se | earch report, submit comments to this Authority.       |  |  |  |  |
| 6. With regards to the drawings,   |   |  |  |  |  |  |
| _  | ublished with the abstract is Figure No   | <u>1</u>   |  |  |  |  |
| x as suggested by  |   | average of figure                                      |  |  |  |  |
|  | s Authority, because the applicant failed to  |  |  |  |  |  |
| L  | s Authority, because this figure better chara   | acterizes the invention.                               |  |  |  |  |
| b. none of the figures is to b   | e published with the abstract.  |  |  |  |  |  |

International application No. PCT/GB2004/003186

# INTERNATIONAL SEARCH REPORT

| Box II    | Observations where certain claims were found unsearchable (Continuation of item 2 of first sneet)  |
|-----------|--|
| This Inte | ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:   |
| 1.        | Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  |
| 2.        | Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: |
| 3.        | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).   |
| Box III   | Observations where unity of invention is lacking (Continuation of item 3 of first sheet)   |
| This Inte | ernational Searching Authority found multiple inventions in this international application, as follows:  |
|           | see additional sheet   |
| 1.        | As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.   |
| 2.        | As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.   |
| з. 🛛      | As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  1-15,31-59           |
| 4.        | No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:           |
| Remarl    | The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.  |
|           |  |

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15

2. claims: 16-30

3. claims: 31-59

4. claims: 60-67

device with features 
$$(a)$$
, $(b)$ , $(i)$ , $(i)$ , $(i1)$ \_ $(6)$ 

5. claims: 68,69

device with features 
$$(a)$$
, $(b)$ , $(c)$ , $(i)$ , $(k)$ 

6. claim: 70

device with features 
$$(a),(b),(c),(k)$$

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/003186

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61L9/03 A01M1/20

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61L A01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

#### EPO-Internal

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages                       | Relevant to claim No. |
|------------|--|-----------------------|
| Х          | EP 1 270 021 A (ZOBELE HOLDING S P A) 2 January 2003 (2003-01-02) paragraphs [0027], [0045]; figures 1-5 | 1-15                  |
| X          | US 5 945 094 A (MARTIN JOHN ET AL)<br>31 August 1999 (1999-08-31)<br>figures 1-5                         | 1-15                  |
| Х          | US 5 903 710 A (MARTIN JOHN ET AL)<br>11 May 1999 (1999-05-11)<br>figures 1-5                            | 1-15                  |
| Х          | US 6 123 935 A (MARTIN JOHN ET AL)<br>26 September 2000 (2000-09-26)<br>figures 1-4                      | 1-15                  |
|            | -/   |                       |

| Further documents are listed in the continuation of box C.  | Patent family members are listed in annex.  |  |  |
|---|---|--|--|
| <ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> </ul>  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention   |  |  |
| <ul> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul> | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family |  |  |
| Date of the actual completion of the international search   | Date of mailing of the international search report  |  |  |
| 15 December 2004  | 12 1. 01. 05  |  |  |
| Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016  | Authorized officer  Connor, M   |  |  |

2

#### INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/003186

| C.(Continu | ation) DOCUMENTS CONSIDERED TO BE RELEVANT  |                       |  |
|------------|---|-----------------------|--|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages    | Relevant to claim No. |  |
| X          | EP 0 722 742 A (GLOBOL GMBH)<br>24 July 1996 (1996-07-24)<br>figures 1-7              | 1-15                  |  |
| X          | WO 98/46284 A (JOHNSON & SON INC S C)<br>22 October 1998 (1998-10-22)<br>figures 8-11 | 31-59                 |  |
| X          | DE 41 31 613 A (GLOBOL GMBH) 25 March 1993 (1993-03-25) figure 3                      | 31-59                 |  |
| Р,Х        | US 2004/076410 A1 (ZOBELE FRANCO ET AL) 22 April 2004 (2004-04-22) figures 1,3,4      | 31-59                 |  |
|            | <del></del> -   |                       |  |
| •          |   |                       |  |
|            | · ·   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
| -          |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   |                       |  |
|            |   | :                     |  |
|            |   |                       |  |

2

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/003186

| Patent document cited in search report |    | Publication date |  | Patent family member(s)   | Publication date   |
|--|----|------------------|--|---|--|
| EP 1270021                             | Α  | 02-01-2003       | IT<br>EP   | MI20011296 A1<br>1270021 A1   | 20-12-2002<br>02-01-2003   |
| US 5945094                             | Α  | 31-08-1999       | AU<br>WO   | 7137698 A<br>9846285 A1   | 11-11-1998<br>22-10-1998   |
| US 5903710                             | Α  | 11-05-1999       | AU<br>WO   | 7119698 A<br>9846281 A1   | 11-11-1998<br>22-10-1998   |
| US 6123935                             | Α  | 26-09-2000       | AU<br>WO<br>ZA   | 6974498 A<br>9846283 A1<br>9803043 A  | 11-11-1998<br>22-10-1998<br>20-10-1998   |
| EP 0722742                             | A  | 24-07-1996       | DE<br>AU<br>AU<br>BR<br>CN<br>EG<br>EP<br>JP<br>KR<br>TR | 4446413 A1<br>695612 B2<br>4020095 A<br>9505736 A<br>1133257 A<br>21034 A<br>0722742 A2<br>8244842 A<br>231352 B1<br>960538 A2<br>9510121 A | 27-06-1996<br>20-08-1998<br>04-07-1996<br>23-12-1997<br>16-10-1996<br>30-09-2000<br>24-07-1996<br>24-09-1996<br>15-11-1999<br>21-07-1996 |
| WO 9846284                             | Α  | 22-10-1998       | AU<br>WO   | 6975798 A<br>9846284 A1   | 11-11-1998<br>22-10-1998   |
| DE 4131613                             | Α  | 25-03-1993       | DE   | 4131613 A1  | 25-03-1993   |
| US 2004076410                          | A1 | 22-04-2004       | NONE   |   |  |

### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International filing date (day/month/year) International application No. 23.07.2003 22.07.2004 PCT/GB2004/003186 International Patent Classification (IPC) or both national classification and IPC A61L9/03, A01M1/20 Applicant RECKITT BENCKISER (AUSTRALIA) PTY LIMITED This opinion contains indications relating to the following items: 1. Basis of the opinion Box No. I **Priority** Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application ☐ Box No. VII ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

**)** 

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

Connor, M

Telephone No. +49 89 2399-8402



Name and mailing address of the ISA:

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/003186

|                          | IAP20 RESIDENTIAN 2006  |
|--------------------------|---|
| Box No. I                | Basis of the opinion  |
| With regar<br>the langua | d to the <b>language</b> , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.   |
| langua                   | opinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search r Rules 12.3 and 23.1(b)).   |
| With regar<br>necessary  | d to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:   |
| a. type of               | material:   |
| □ as                     | sequence listing  |
| □ tab                    | ble(s) related to the sequence listing  |
| b. format o              | of material:  |
| ☐ in                     | written format  |
| ☐ in                     | computer readable form  |
| c. time of t             | filing/furnishing:  |
| □ со                     | ntained in the international application as filed.  |
| ☐ file                   | ed together with the international application in computer readable form.   |
| ☐ fur                    | nished subsequently to this Authority for the purposes of search.   |
| has b<br>copie:          | dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto<br>een filed or furnished, the required statements that the information in the subsequent or additional<br>s is identical to that in the application as filed or does not go beyond the application as filed, as<br>opriate, were furnished. |
| 4. Additional            | comments:   |

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/003186

| Во          | x No. II        | Priority  |
|-------------|-----------------|---|
| 1. 🖾        | The fo          | llowing document has not been furnished:  |
|             | $\boxtimes$     | copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).   |
|             |                 | translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).  |
|             | Conse<br>nevert | quently it has not been possible to consider the validity of the priority claim. This opinion has heless been established on the assumption that the relevant date is the claimed priority date.  |
| 2. 🗆        | has he          | pinion has been established as if no priority had been claimed due to the fact that the priority claim een found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.                         |
| 3. 🗆        | W00 01          | not been possible to consider the validity of the priority claim because a copy of the priority document of available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has heless been established on the assumption that the relevant date is the claimed priority date. |
| 4. Ad       | ditional        | observations, if necessary:   |
|             |                 |   |
| Bo          | x No. IV        | / Lack of unity of invention  |
| 1. 🖾        |                 | ponse to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:   |
|             |                 | paid additional fees.   |
|             |                 | paid additional fees under protest.   |
|             | ⊠               | not paid additional fees.   |
| 2. 🗆        | This A          | uthority found that the requirement of unity of invention is not complied with and chose not to invite plicant to pay additional fees.  |
| 3. Th       | is Autho        | rity considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is  |
|             | complie         | ed with   |
| $\boxtimes$ | not com         | nplied with for the following reasons:  |
|             |                 | eparate sheet   |
| 4. Co       | nseque          | ntly, this report has been established in respect of the following parts of the international application:  |
|             | all parts       | <b>3.</b>   |
| $\boxtimes$ | the part        | ts relating to claims Nos. 1-15   |

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1,31,45

Inventive step (IS)

Yes: Claims

No: Claims

1-15,31-59

Industrial applicability (IA)

Yes: Claims

1-15,31-59

No: Claims

2. Citations and explanations

see separate sheet

#### Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

International application No.

# PCT/GB2004/003186

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

# Re Item IV

# Lack of unity of invention

1 The application lacks unity within the meaning of Rule 13 PCT because the following separate inventions are not so linked as to form a single general inventive concept:

Table 1: different inventions in the present set of claims

| v | claims | subject-matter  |  |                    |  |
|---|--------|---|--|--------------------|--|
|   | 1-15   | device with features (a),(b),(b1) <sup>(1)</sup> ,        | (b2) <sup>(2)</sup> ,(c),(c1),(d),(e   | e)                 |  |
|   | 16-30  | device with features (a),(b),(b1) <sup>(1)</sup> ,        | (b2) <sup>(3)</sup> ,(c),(c1),   | (f) <sup>(4)</sup> |  |
| ┨ | 31-59  | device with features (a),(b),(b1) <sup>(1)</sup> ,        | device with features (a),(b),(b1) <sup>(1)</sup> ,(b2) <sup>(2)</sup> ,(c)[clm.31], (f) <sup>(5)</sup> ,(g),(h),(h1),(i) |                    |  |
|   | 60-67  | device with features (a),(b), (h),(i),(i1) <sup>(6)</sup> |  |                    |  |
| ㅓ | 68,69  | device with features (a),(b),                             | (c),   | (i),(k)            |  |
| _ | 70     | device with features (a),(b),                             | (c),   | (k)                |  |

wherein features (a)-(k) correspond to:

- (a) means for storing chemicals;
- (b) wick means;
  - (b1) in [continuous<sup>(1)</sup>] contact with chemical formulation;
  - (b2) located within(2) / in contact with(3) support means (c);
- (c) wick support means;
  - (c1) with aperture;
- (d) means to co-locate aperture (c1) with heater means (which do not belong to device);
- (e) direct contact of heater means with wet wick;
- (f) indirect contact of heater means with wet wick through support means<sup>(4)</sup> / substrate<sup>(5)</sup>;
- (g) releasably insertable into heater means;
- (h) housing enclosing portion of wick;
  - (h1) having aperture;
- (i) substrate
  - (i1) in contact with wick means, [and housing, storing means]<sup>(6)</sup>;
  - (i2) having first layer in first material;
- (j) storing means and housing bond to substrate;
- (k) other

Inventions (1)-(6) are generally linked by the concept of a vaporizing device comprising a chemical formulation storage means, a wick, and a wick support means, suitable for being used together with a heater source, which is not novel --let alone inventive--. In particular, inventions (1) and (2) only are characterized by a wick support means having an aperture; the sole device defined such that the heat may be applied directly to the wick (feature (e)) is the one called for in claims 1-15 (cf. Figures 1-3); in the remaining devices heat is applied indirectly to the wick (feature (f)), or it is not specified). Consequently, none of inventions (2)-(6) is so linked with invention (1) as to form a single general inventive concept contrary to the requirements of Rule 13 PCT EPC.

As the applicant paid the search fees for inventions 1 and 3, examination is carried out for the first and third groups of inventions (claims 1-15, 31-59). The applicant is invited to limit the application accordingly, i.e., the other inventions are to be excised from the claims, description and drawings if any.

#### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- The present application does not meet the requirements of Article 6 PCT for the following reasons. The heater means are not part of the device called for in present claim 1.
- 1.1 Although some references to the heater means are allowed to define certain features of the claimed device, claim 10 refers exclusively to features of the heater means per se, which are not part of the invention. Consequently, claim 10 should be deleted.
- 1.2 The features expressed with respect to a heater means are construed broadly as "suitable for...", e.g., direct contact between the heater means and the wick (feature (e)) is considered fulfilled if there is an aperture permitting contact of the wick with a heater means. Similarly, means to co-locate aperture (c1) with heater means (feature (d)) is considered anticipated by any device, since said positioning means could simply consist of the shape of the device matching a cavity comprising the heater means.
- 1.3 Claim 45 includes all the features of claim 31. Hence, claim 45 should be

reformulated as a claim dependent on claim 31, cf. Rule 6(4) PCT.

2 The following documents were cited in the search report:

D1: EP-A-1 270 021 (ZOBELE HOLDING S P A) 2 January 2003 (2003-01-02)

D2: US-A-5 945 094 (MARTIN JOHN ET AL) 31 August 1999 (1999-08-31)

D3: US-A-5 903 710 (MARTIN JOHN ET AL) 11 May 1999 (1999-05-11)

D4: US-A-6 123 935 (MARTIN JOHN ET AL) 26 September 2000 (2000-09-26)

D5: EP-A-0 722 742 (GLOBOL GMBH) 24 July 1996 (1996-07-24)

D6: WO 98/46284 A (JOHNSON & SON INC S C) 22 October 1998 (1998-10-22)

D7: DE 41 31 613 A (GLOBOL GMBH) 25 March 1993 (1993-03-25)

D8: US 2004/076410 A1 (ZOBELE FRANCO ET AL) 22 April 2004 (2004-04-22)

The device proposed in claim 1 of the present application cannot be considered as novel (Article 33(2) PCT) for the following reasons. The device of claim 1 comprises features (a),(b),(b1)<sup>(1)</sup>,(b2)<sup>(2)</sup>,(c),(c1),(d),(e) as defined in point IV-1 supra. D1-D5 anticipate all these features as illustrated in Table 2 below.

Table 2: features called for in present claim 1 and disclosed in D1-D5

| feature | D1                          | D2             | D3                   | D4_       | D5          |
|---------|-----------------------------|----------------|----------------------|-----------|-------------|
| (a)     | #7                          | #12            | #22                  | #18       | #5          |
| (b)     | #3                          | #14            | #20                  | #16       | #3          |
| (b1)    | cf. Fig.3                   | cf. Fig.1,4&5  | cf. Fig.1            | cf. Fig.1 | cf. Fig.2&3 |
| (b2)    | cf. Fig.3                   | cf. Fig.1,4&5  | cf. Fig.1            | cf. Fig.1 | cf. Fig.2&3 |
| (c)     | #4,5                        | #12,18         | #15,25               | #14,25    | #15,16      |
| (c1)    | #15,8                       | #27            | #28,17               | #26       | #10         |
| (d)     | [0027]&[0045],<br>cf. V-1.2 | cf. Fig.2, #25 | cf. Fig.1,<br>#17&26 | #36       | #30         |
| (e)     | [0027]&[0045],<br>cf. V-1.2 | cf. Fig.2, #25 | cf. Fig. 1           | #36       | #30         |

- The dependent claims 2-15 do not seem to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step.
- 5 The device proposed in claims 31 and 45 of the present application cannot be

considered as novel (Article 33(2) PCT) for the following reasons. D6, D7, and D8 (the latter, published between priority and filing dates of the present application, is not considered as prior art under the PCT) disclose all the features of claims 31 and 45 as listed n Table 3 below.

Table 3: features called for in present claim 31&45 and disclosed in D6-D9

| feature               | D6                  | D7                  | D8 (intermediate doc) |
|-----------------------|---------------------|---------------------|-----------------------|
| (a)                   | 15                  | 18                  | 7                     |
|                       | 24 in contact w/ 25 | 30 in contact w/ 36 | 3                     |
| (f) <sup>5</sup>      | 16; heater 12       | back of 20          | 5                     |
| (h)                   | see area around 32  | 25                  | 9                     |
| (i),(i1) <sup>6</sup> | 16                  | back of 20          | 5                     |

see footnotes of Table 1

The dependent claims 32-44 and 46-59 do not seem to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step.